BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Drilling of Bore well and Providing Pipeline in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.

Estimated Cost : Rs. 35.00 Lakhs

Head of Account : P-1802 Water Supply new areas

Job Code: 011-20-000123

Name of Agency: Sri. B. Chandrashekar, No. 28, Anjaneya Swamy Layout, 1st Main Road, Thindlu, Vidyaranyapura (Post), Bangalore - 560 097.

Work order No: BMP/EE/BTP/WO/27/2020-21 D: 23-06-2020.

	Measurements Recarded on :						
Sl No	**Description of item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction						
		Each BW					
	1. Defence Layout near Burial Ground		1				1
	2. Raghavendra Colony near Shabari School		1				1
	3. MS Palya Hunsemara Road		1				1
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		1				1
			Total Qty =				**4**

Assistant Engineer
New Ward No. 15

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,)						
	0 to 50 m	Rmtr					
	1. Defence Layout near Burial Ground		1	50.00			50.00
	2. Raghavendra Colony near Shabari School		1	50.00			50.00
	3. MS Palya Hunsemara Road		1	50.00			50.00
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		1	50.00			50.00
							200.00
3	**50 to 100 m**	Rmtr					
	1. Defence Layout near Burial Ground		1	50.00			50.00
	2. Raghavendra Colony near Shabari School		1	50.00			50.00
	3. MS Palya Hunsemara Road		1	50.00			50.00
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		1	50.00			50.00
							200.00
4	**100 to 150 m**	Rmtr					
	1. Defence Layout near Burial Ground		1	50.00			50.00
	2. Raghavendra Colony near Shabari School		1	50.00			50.00
	3. MS Palya Hunsemara Road		1	50.00			50.00
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		1	50.00			50.00
							200.00
5	**150 to 200 m**	Rmtr					
	1. Defence Layout near Burial Ground		1	50.00			50.00
	2. Raghavendra Colony near Shabari School		1	50.00			50.00
	3. MS Palya Hunsemara Road		1	50.00			50.00
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		1	50.00			50.00
							200.00
6	**200 to 250 m**	Rmtr					
	1. Defence Layout near Burial Ground		1	50.00			50.00
	2. Raghavendra Colony near Shabari School		1	50.00			50.00
	3. MS Palya Hunsemara Road		1	50.00			50.00
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		1	50.00			50.00
							200.00
7	**250 to 300 m**	Rmtr					
	1. Defence Layout near Burial Ground		1	50.00			50.00
	2. Raghavendra Colony near Shabari School		1	50.00			50.00
	3. MS Palya Hunsemara Road		1	50.00			50.00
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		1	50.00			50.00
							200.00
8	**300 to 350 m**	Rmtr					
	1. Defence Layout near Burial Ground		1	51.00			51.00
	2. Raghavendra Colony near Shabari School		1	48.00			48.00
	3. MS Palya Hunsemara Road		1	52.00			52.00
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		1	51.00			51.00
					Total Qty =		**202.00**
					Qty Limited to App Qty =		**200.00**

Assistant Engineer
New Ward No. 15

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B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
10	Providing 250mm dia PVC Pipe 6kg/cm						
		Rmtr					
	1. Defence Layout near Burial Ground		3	6.00			18.00
	2. Raghavendra Colony near Shabari School		3	6.00			18.00
	3. MS Palya Hunsemara Road		3	6.00			18.00
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		3	6.00			18.00
				Total Qty =			**72.00**

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on : 2						
11	Providing and fixing Borewell Cap & Clamp Set						
		Set					
	1. Defence Layout near Burial Ground		1				1
	2. Raghavendra Colony near Shabari School		1				1
	3. MS Palya Hunsemara Road		1				1
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		1				1
			Total Qty =				4

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B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
12	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps						
	15 HP 30 Stage	No					
	1. Defence Layout near Burial Ground		1				1
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		1				1
	Additional Pumpset Singapura Layout 1st Main		1				1
						Total Qty =	3

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B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
13	GI Pipe 50 mm'B' class						
		Mtrs					
	1. Defence Layout near Burial Ground		58	6.00			348.00
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		59	6.00			354.00
	Additional Pumpset Singapura Layout 1st Main		59	6.00			354.00
			Total Qty =				**1056.00**
			Qty Limited to App Qty =				**1050.00**

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Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
14	Heavy Duty Collar 50 mm dia						
		Nos					
	1. Defence Layout near Burial Ground		59				59
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		60				60
	Additional Pumpset Singapura Layout 1st Main		60				60
			Total Qty =				179
			Qty Limited to App Qty =				177

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Assistant Executive Engineer
Vidyaranyapura Sub Division

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
15	Providing non-return valve 50 mm						
		Nos					
	1. Defence Layout near Burial Ground		1				1
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		1				1
	Additional Pumpset Singapura Layout 1st Main		1				1
				Total Qty =			3

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Vidyaranyapura Sub Division

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
16	Providing Gate Valve 50 mm						
		Nos					
	Main Road		17				17
	Cross Road		18				18
			20				20
			Total Qty =				55
			Qty Limited to App Qty =				54

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Vidyaranyapura Sub Division

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
18	Submersible Cable 1x3x6.0 Sq.mm						
	1. Defence Layout near Burial Ground	Mtrs					
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	25.00			50.00
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road						
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	22.00			44.00
	Additional Pumpset Singapura Layout 1st Main						
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	30.00			60.00
			2	22.00			44.00
				Total Qty =			1938
				Qty Limited to App Qty =			1920

Assistant Engineer
New Ward No. 15

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B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
19	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00)						
		Per Length					
	1. Defence Layout near Burial Ground		59				59
	4. Kuvempunagara 1st Stage Samudaya Bhavan Road		60				60
	Additional Pumpset Singapura Layout 1st Main		60				60
			Total Qty =				**179**
			Qty Limited to App Qty =				**162**

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Vidyaranyapura Sub Division

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
30	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriy and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strata by Manual Means .						
		Cum					
	Abbigere Main From 1st Cross C. Muniswamappa Layout to 5th Cross		1	30.00	0.60	0.60	10.80
			1	30.00	0.60	0.60	10.80
			1	30.00	0.60	0.60	10.80
			1	7.00	0.60	0.60	2.52
			1	30.00	0.60	0.60	10.80
			1	6.50	0.60	0.60	2.34
			1	30.00	0.60	0.60	10.80
			1	30.00	0.60	0.60	10.80
			1	30.00	0.60	0.60	10.80
	7th Cross Road N/S		1	30.00	0.60	0.60	10.80
			1	24.00	0.60	0.60	8.64
	8th Cross Road N/S		1	30.00	0.60	0.60	10.80
			1	11.00	0.60	0.60	3.96
	4th Cross Road S/S		1	26.30	0.60	0.60	9.47
	3rd Cross Road S/S		1	30.00	0.60	0.60	10.80
			1	30.00	0.60	0.60	10.80
			1	16.00	0.60	0.60	5.76
	2nd Cross Road S/S		1	30.00	0.60	0.60	10.80
			1	30.00	0.60	0.60	10.80
			1	23.00	0.60	0.60	8.28
	1st Cross Road S/S		1	30.00	0.60	0.60	10.80
			1	6.00	0.60	0.60	2.16
			Total Qty =				**194.33**
			Qty Limited to App Qty =				**190.80**
			Qty upto 125%				**121.50**
			Qty above 125%				**69.30**

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New Ward No. 15

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Vidyaranyapura Sub Division

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
31	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc.,						
	75 mm dia 6 KSC PVC pipe	Rmtr					
	Abbigere Main From 1st Cross C. Muniswamappa Layout to 5th Cross		1	30.00			30.00
			1	30.00			30.00
			1	30.00			30.00
			1	7.00			7.00
			1	30.00			30.00
			1	6.50			6.50
			1	30.00			30.00
			1	30.00			30.00
			1	30.00			30.00
							0.00
	7th Cross Road N/S		1	30.00			30.00
			1	24.00			24.00
	8th Cross Road N/S		1	30.00			30.00
			1	11.00			11.00
	4th Cross Road S/S		1	26.30			26.30
	3rd Cross Road S/S		1	30.00			30.00
			1	30.00			30.00
			1	16.00			16.00
	2nd Cross Road S/S		1	30.00			30.00
			1	30.00			30.00
			1	23.00			23.00
	1st Cross Road S/S		1	30.00			30.00
			1	6.00			6.00
				Total Qty =			**539.80**
				Qty Limited to App Qty =			**530.00**
				Qty upto 125%			**337.50**
				Qty above 125%			**192.50**

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
32	Filling the foundations KSRRB 2100-6. Filling the foundations trenches using approved sand as per drawing and technical specifications in 250mm layers, wherever necessary watering and ramming, including cost of all materials, labour complete as per specifications.						
	Filling Sand	cum					
	Abbigere Main From 1st Cross C. Muniswamappa Layout to 5th Cross		1	30.00	0.60	0.20	3.60
			1	30.00	0.60	0.20	3.60
			1	30.00	0.60	0.20	3.60
			1	7.00	0.60	0.20	0.84
			1	30.00	0.60	0.20	3.60
			1	6.50	0.60	0.20	0.78
			1	30.00	0.60	0.20	3.60
			1	30.00	0.60	0.20	3.60
			1	30.00	0.60	0.20	3.60
	7th Cross Road N/S		1	30.00	0.60	0.20	3.60
			1	24.00	0.60	0.20	2.88
	8th Cross Road N/S		1	30.00	0.60	0.20	3.60
			1	11.00	0.60	0.20	1.32
	4th Cross Road S/S		1	26.30	0.60	0.20	3.16
	3rd Cross Road S/S		1	30.00	0.60	0.20	3.60
			1	30.00	0.60	0.20	3.60
			1	16.00	0.60	0.20	1.92
	2nd Cross Road S/S		1	30.00	0.60	0.20	3.60
			1	30.00	0.60	0.20	3.60
			1	23.00	0.60	0.20	2.76
	1st Cross Road S/S		1	30.00	0.60	0.20	3.60
			1	6.00	0.60	0.20	0.72
			Total Qty =				**64.78**
			Qty Limited to App Qty =				**63.60**
			Qty upto 125%				**40.05**
			Qty above 125%				**23.55**

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B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
	EIRL						
E1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.						
	1. Defence Layout near Burial Ground	Cum	1	2.20	2.20	1.50	7.26
				Total Qty =			**7.26**

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Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
E2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.						
	1. Defence Layout near Burial Ground	cum	1	2.20	2.20	0.15	0.73
					Total Qty =		**0.73**

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New Ward No. 15

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Vidyaranyapura Sub Division

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
E3	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)						
	1. Defence Layout near Burial Ground	cum	2	2.20	0.45	1.00	1.98
			2	1.20	0.45	1.00	1.08
					Total Qty =		**3.06**

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Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
E4	Providing ruled pointing to cursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as pre specification.						
	1. Defence Layout near Burial Ground	sqm	2	1.20		1.00	2.40
			2	1.20		1.00	2.40
					Total Qty =		**4.80**

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Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of item	Unit	No	L	B	D	Qty
	Measurements Recarded on :						
E5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate						
		cum					
	1. Defence Layout near Burial Ground Coping Concrete		2	2.20	0.45	0.10	0.20
			2	1.20	0.45	0.10	0.11
			1	1.20	1.20	0.10	0.14
			Total Qty =				**0.45**

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B.B.M.P, Bangalore - 97